

CIRCULAR POLE PIECE AND MRI SYSTEM

ABSTRACT OF THE DISCLOSURE

The object of the present invention is to minimize the residual magnetic induction in a circular pole piece included in a magnetic circuit for magnetic resonance imaging. A circular pole piece is divided into two portions, that is, a center portion and a marginal portion. A soft magnetic material that exhibits a high permeability (for example, 10000 or more) with a relatively small external magnetic field (for example, ranging from 20 A/m to 60 A/m) applied thereto is adopted as a soft magnetic material to be made into a center-portion laminate block. A soft magnetic material that exhibits a high permeability (for example, 6000 or more) with a relatively large external magnetic field (for example, ranging from 50 A/m to 150 A/m) applied thereto is adopted as a soft magnetic material to be made into a marginal-portion laminate block 103b. Consequently, since the residual magnetic induction in the circular pole piece can be minimized, the degradation in image quality attributable to a residual magnetic induction can be prevented.